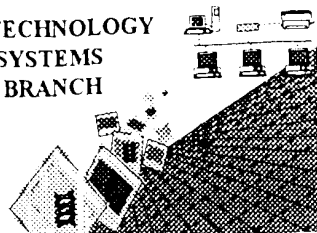


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



1644
P#13
RECEIVED

NOV 27 2002

TECH CENTER 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/661,992A
Source: 1/600
Date Processed by STIC: 11/21/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/661,992 A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☒ Wrapped Nucleics
Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ☐ Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ☐ Misaligned Amino
Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 ☐ Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ☐ Variable Length
Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ PatentIn 2.0
"bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ☐ Skipped Sequences
(OLD RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ☐ Skipped Sequences
(NEW RULES)
Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 ☐ Use of n's or Xaa's
(NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 ☐ Invalid <213>
Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ☐ Use of <220>
Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 ☐ PatentIn 2.0
"bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/2002

TIME: 10:11:11

Input Set : A:\237 sequence listing.asc

Output Set: N:\CRF4\11212002\I661992A.raw

3 <11> APPLICANT: Schellinger, Friedrich
 4 Kerschbaumer, Randolph
 5 Falkner, Falko-Guenter
 6 Berner, Friedrich
 W--> 8 <120> *mandatory name identified and sequence needed*
 W--> 10 <130> FILE REFERENCE:
 12 <140> CURRENT APPLICATION NUMBER: US 09/661,992A
 C--> 14 <141> CURRENT FILING DATE: 2000-09-14 *check this mandatory name identified and sequence*
 14 <160> NUMBER OF SEQ ID NOS: 106
 16 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 26
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Artificial Sequence
 23 <220> FEATURE:
 24 <223> OTHER INFORMATION: Description of the artificial sequence:primer
 26 <400> SEQUENCE: 1
 E--> 27 ctcaattttc ttgtccacct tgggtgc *26 (global) accession*
 28 26
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 26
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Description of the artificial sequence:primer
 39 <400> SEQUENCE: 2
 E--> 40 ctcgattctc ttgatcaact cagtct *same*
 41 26
 44 <210> SEQ ID NO: 3
 45 <211> LENGTH: 24
 46 <212> TYPE: DNA
 47 <213> ORGANISM: Artificial Sequence
 49 <220> FEATURE:
 50 <223> OTHER INFORMATION: Description of the artificial sequence:primer
 52 <400> SEQUENCE: 3
 E--> 53 tggaatgggc acatgcagat ctct *same*
 54 24
 57 <210> SEQ ID NO: 4
 58 <211> LENGTH: 24

Does Not Comply
Correction Needed

Page 1-13

1 on
 Error
 Summary
 Sheet

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 1:11:23

Input Set : A:\237 sequence listing.asc

Input Set: N:\CRF4\11212002\I661992A.raw

66 <210> TYPE: DNA

67 <213> ORGANISM: Artificial Sequence

68 <216> FEATURE:

69 <223> OTHER INFORMATION: Description of the artificial sequence:primer

69 <400> SEQUENCE: 4

E--> 66 ctcattcctg ttgaagctct tgac

69 4

763 <210> SEQ ID NO: 50

764 <211> LENGTH: 57

765 <212> TYPE: DNA

766 <213> ORGANISM: Artificial Sequence

769 <220> FEATURE:

769 <223> OTHER INFORMATION: Description of the artificial sequence:primer

771 <400> SEQUENCE: 50

E--> 772 catgccatga ctgcgggcc agccggccat ggccsaggtg marctgcags agtcwgg

773 57

776 <210> SEQ ID NO: 51

777 <211> LENGTH: 56

778 <212> TYPE: DNA

779 <213> ORGANISM: Artificial Sequence

781 <220> FEATURE:

782 <223> OTHER INFORMATION: Description of the artificial sequence:primer

784 <400> SEQUENCE: 51

E--> 785 gtccctcgcaa ctgcggccca gccggccatg gccgaggtgc agcttcagga gtcagg

786 56

789 <210> SEQ ID NO: 52

790 <211> LENGTH: 56

791 <212> TYPE: DNA

792 <213> ORGANISM: Artificial Sequence

794 <220> FEATURE:

795 <223> OTHER INFORMATION: Description of the artificial sequence:primer

797 <400> SEQUENCE: 52

E--> 798 gtccctcgcaa ctgcggccca gccggccatg gccgatgtgc agcttcagga gtcagg

799 56

802 <210> SEQ ID NO: 53

803 <211> LENGTH: 56

804 <212> TYPE: DNA

805 <213> ORGANISM: Artificial Sequence

807 <220> FEATURE:

808 <223> OTHER INFORMATION: Description of the artificial sequence:primer

810 <400> SEQUENCE: 53

E--> 811 gtccctcgcaa ctgcggccca gccggccatg gccaggtgc agctgaagsa gtcagg

812 56

815 <210> SEQ ID NO: 54

816 <211> LENGTH: 56

817 <212> TYPE: DNA

818 <213> ORGANISM: Artificial Sequence

820 <220> FEATURE:

821 <223> OTHER INFORMATION: Description of the artificial sequence:primer

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 10:45:33

Input Set : A:\237 sequence listing.asc

Output Set: N:\CRF4\11212002\I661992A.raw

824 gtcctcgcaa ctgcgggccca gccggccatg gccgaggtgc agctgcarca rtctgg
825 36
826 <210> SEQ ID NO: 55
827 <211> LENGTH: 56
828 <212> TYPE: DNA
829 <213> ORGANISM: Artificial Sequence
830 <220> FEATURE:
831 <223> OTHER INFORMATION: Description of the artificial sequence:primer
832 <400> SEQUENCE: 55

837 gtcctcgcaa ctgcgggccca gccggccatg gccaggtgc arctgcagca gyctgg
838 36
839 <210> SEQ ID NO: 56
840 <211> LENGTH: 56
841 <212> TYPE: DNA
842 <213> ORGANISM: Artificial Sequence
843 <220> FEATURE:
844 <223> OTHER INFORMATION: Description of the artificial sequence:primer
845 <400> SEQUENCE: 56

850 gtcctcgcaa ctgcgggccca gccggccatg gccgargtga agctggtgga rtctgg
851 56
852 <210> SEQ ID NO: 57
853 <211> LENGTH: 56
854 <212> TYPE: DNA
855 <213> ORGANISM: Artificial Sequence
856 <220> FEATURE:
857 <223> OTHER INFORMATION: Description of the artificial sequence:primer
858 <400> SEQUENCE: 57

863 gtcctcgcaa ctgcgggccca gccggccatg gccgaggttc agcttcagca gtctgg
864 56
865 <210> SEQ ID NO: 58
866 <211> LENGTH: 56
867 <212> TYPE: DNA
868 <213> ORGANISM: Artificial Sequence
869 <220> FEATURE:
870 <223> OTHER INFORMATION: Description of the artificial sequence:primer
871 <400> SEQUENCE: 58

876 gtcctcgcaa ctgcgggccca gccggccatg gccgaagtgc agctgktgga gwctgg
877 56
878 <210> SEQ ID NO: 59
879 <211> LENGTH: 56
880 <212> TYPE: DNA
881 <213> ORGANISM: Artificial Sequence
882 <220> FEATURE:
883 <223> OTHER INFORMATION: Description of the artificial sequence:primer
884 <400> SEQUENCE: 59

889 gtcctcgcaa ctgcgggccca gccggccatg gccagatcc agttgctgca gtctgg
890 56
891 <210> SEQ ID NO: 60

Done

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 1:47:10

Input Set : A:\237 sequence listing.asc

Output Set: N:\CRF4\11212002\I661992A.raw

902 <210> LENGTH: 60

903 <211> TYPE: DNA

904 <213> ORGANISM: Artificial Sequence

905 <212> FEATURE:

906 <223> OTHER INFORMATION: Description of the artificial sequence:primer

907 <400> SEQUENCE: 60

E--> 902 accgccagag gcgcgcccac ctgaaccgcc tccacctgag gagacggtga ccgtggtccc

903 60

E--> 904 ttggcccc

905 60

908 <210> SEQ ID NO: 61

909 <211> LENGTH: 60

910 <212> TYPE: DNA

911 <213> ORGANISM: Artificial Sequence

912 <212> FEATURE:

914 <223> OTHER INFORMATION: Description of the artificial sequence:primer

916 <400> SEQUENCE: 61

E--> 917 accgccagag gcgcgcccac ctgaaccgcc tccacctgag gagacggtga ccgtggtccc

918 60

921 <210> SEQ ID NO: 62

922 <211> LENGTH: 60

923 <212> TYPE: DNA

924 <213> ORGANISM: Artificial Sequence

926 <220> FEATURE:

927 <223> OTHER INFORMATION: Description of the artificial sequence:primer

929 <400> SEQUENCE: 62

E--> 930 accgccagag gcgcgcccac ctgaaccgcc tccacctgag gagactgtga gagtgggtgcc

931 60

934 <210> SEQ ID NO: 63

935 <211> LENGTH: 60

936 <212> TYPE: DNA

937 <213> ORGANISM: Artificial Sequence

939 <220> FEATURE:

940 <223> OTHER INFORMATION: Description of the artificial sequence:primer

942 <400> SEQUENCE: 63

E--> 943 accgccagag gcgcgcccac ctgaaccgcc tccacctgca gagacagtga ccagagtccc

944 60

947 <210> SEQ ID NO: 64

948 <211> LENGTH: 60

949 <212> TYPE: DNA

950 <213> ORGANISM: Artificial Sequence

952 <220> FEATURE:

953 <223> OTHER INFORMATION: Description of the artificial sequence:primer

955 <400> SEQUENCE: 64

E--> 956 accgccagag gcgcgcccac ctgaaccgcc tccacctgag gagacggtga ctgaggttcc

957 60

960 <210> SEQ ID NO: 65

961 <211> LENGTH: 60

962 <212> TYPE: DNA

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 1:55:16

Input Seq : A:\237 sequence listing.asc

Output Seq: N:\CRF4\11212002\I661992A.raw

<210> ORGANISM: Artificial Sequence

<211> FEATURE:

<213> OTHER INFORMATION: Description of the artificial sequence:primer

<400> SEQUENCE: 67

E--> 969 ggttcagatg ggcgcgcctc tggcgggtggc ggatcggaca ttgagctcac ccagtctcca

1142 <210> SEQ ID NO: 74

1143 <211> LENGTH: 74

1144 <212> TYPE: DNA

1145 <213> ORGANISM: Artificial Sequence

1146 <220> FEATURE:

1148 <223> OTHER INFORMATION: Description of the artificial sequence:mychis t

1150 <400> SEQUENCE: 79

E--> 1151 ggccgcagaa caaaaactca tctcagaaga ggatctgaat ggggcggcac atcaccatca

1152 67

E--> 1153 ccatacctaa taag

1154 74

1155 <210> SEQ ID NO: 80

1156 <211> LENGTH: 74

1157 <212> TYPE: DNA

1158 <213> ORGANISM: Artificial Sequence

1159 <220> FEATURE:

1161 <223> OTHER INFORMATION: Description of the artificial sequence:mychis

1163 <400> SEQUENCE: 80

E--> 1166 aattcttatt agtgaatggtg atggtgatgt gccgcccat tcagatcctc ttctgagatg

1167 60

E--> 1168 agtttttgtt ctgc

1169 74

1172 <210> SEQ ID NO: 81

1173 <211> LENGTH: 726

1174 <212> TYPE: DNA

1175 <213> ORGANISM: Artificial Sequence

1177 <220> FEATURE:

1178 <223> OTHER INFORMATION: Description of the artificial sequence:scFv region

1180 <400> SEQUENCE: 81

E--> 1181 gaggtgaagc tgggtggagtc tggacctgag ctgaagaagc ctggagagac agtcaagatc

1182 60

E--> 1183 tcctgcaagg cttctgggta tatcttcaca aactatggaa tgaactgggt gaagcaggct

1184 120

E--> 1185 ccaggaaagg gtttaaagtg gatgggctgg ataaacacct aactggaga gccaacatat

1186 180

E--> 1187 gctgatgact tcaagggaag gtttgccctc tctttggaaa cctctgccag cactgcctat

1188 240

E--> 1189 ttgcagatca acaacctcaa aaatgaggac acggctacat atttctgtgc attatatggt

1190 300

E--> 1191 aactccccta aggggtttgc ttactggggc caagggactc tggctactgt ctctgcaggct

1192 360

E--> 1193 ggaggcgggt cagggtggcg cgccctctggc ggtggcggat cggatattca gatgacacag

1194 420

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 1:43:10

Input Set : A:\237 sequence listing.asc

Output Set : N:\CRF4\11212002\I661992A.raw

E--> 1195 tctcccaaat tctgtctgt atcagcagga gacagggtta ccataacctg caaggccagt
1196 480

E--> 1197 cagagtgtga gtaatgatgt agcttggtac caacagaagc cggggcagtc tctaaacta
1198 540

E--> 1199 ctgatgtact atgcatocaa tcgctacact ggagtccttg atcgcttcac tggcagtggg
1200 600

E--> 1201 tatgggacgg atttcacttt caccatcagc actgtgcagg ctgaagacct ggcagtttat
1202 660

E--> 1203 ttctgtcagc aggattatgg ctctcctccc acgttcggag ggggcaccaa gctggaaatt
1204 720

E--> 1205 aaacgg
1206 726

1267 <210> SEQ ID NO: 83
1268 <211> LENGTH: 747
1269 <212> TYPE: DNA
1270 <213> ORGANISM: Artificial Sequence
1272 <214> FEATURE:
1273 <215> OTHER INFORMATION: Description of the artificial sequence: scFv region
1275 <400> SEQUENCE: 83

E--> 1276 gaagtgcagc tgggtggagtc tgggggaggc ctagtgaagc ctggagggtc cctgaaactc
1277 60

E--> 1278 tctgtgcag cctctggatt cactttcagt acctatacca tgtcttgggt tcgccagact
1279 120

E--> 1280 cgggagaaga ggctggagtg ggtcgcaacc attagtagtg gtggtagtta cacctactat
1281 180

E--> 1282 ccagacagtg tgaggggccc attcaccatc tcagagaca atgccaagaa caccctgtac
1283 240

E--> 1284 ctgcaaatga gcagtctgaa gtctgaggac acagccatgt attactgtac aagagatggg
1285 300

E--> 1286 ggacacgggt acggtagtag ctttgactac tggggccaag gcaccactct cacagtctcc
1287 360

E--> 1288 tcaggtggag gcggttcagg tgggcgcgcc tctggcgggt gcggatcgca aattgtgctc
1289 420

E--> 1290 acccagtctc cactctccct gcctgtcagt cttggagatc aagcctccat ctcttgcaga
1291 480

E--> 1292 tctagtcaga gcattgtaca tagtaatgga aacacctatt tagaatggta cctgcagaaa
1293 540

E--> 1294 ccaggccagt ctccaaagct cctgatctac aaagtttcca accgattttc tggggtccca
1295 600

E--> 1296 gacaaattca gtggcagtgg atcagggaca gatttcacac tcaagatcag cagagtggag
1297 660

E--> 1298 gctgaggatc tgggagttaa ttactgcttt caaggttcac atgttccgtg gacgttcggt
1299 720

E--> 1300 ggaggcacca agctggaaat caaacgg
1301 747

1457 <210> SEQ ID NO: 87
1458 <211> LENGTH: 747
1459 <212> TYPE: DNA
1460 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/661,992A

DATE: 11/11/02
TIME: 11:15:10

Input Set : A:\237 sequence listing.asc
Output Set : N:\CRF4\11212002\I661992A.raw

1462 <11> FEATURE:

1463 <113> OTHER INFORMATION: Description of the artificial sequence:scFv region

1465 <400> SEQUENCE: 89

E--> 1466 gaggtgcagc ttcaggagtc agggggaggc ttagtgaagc ctggaggggc cctgaaactc
1467 6
E--> 1468 tcctgtgcag cctctggatt ctttttagt agttatacca tgtcttgggt tcgccagact
1469 12
E--> 1470 ccggagaaga ggctggagtg ggtcgcaacc attagtagtg gtggtagttc cacctactat
1471 18
E--> 1472 ccagacagtg tgaagggcg attcaccatc tccagagaca atgccaagaa caccctgtac
1473 24
E--> 1474 ctgcaaatga gcagtctgaa gtctgaggac acagccatgt atcaactgtac aagagagggg
1475 30
E--> 1476 ggtggttatt acgtcaactg gtacttcgat gtctggggcg caggcaccac tctcacagtc
1477 36
E--> 1478 tcctcaggtg gaggcggttc aggtggggcg gcctctggcg gtggcggatc ggacattgag
1479 42
E--> 1480 ctacncagtc ctccagcttc tttggctgtg tctctagggc agagggccac catatcctgc
1481 48
E--> 1482 agagccagtg aaagtgttga tagttatggc aagagtttta tgcactggtc ccagcagaaa
1483 54
E--> 1484 ccagggcagc caccctaaact cctcatctat cgtgcatcca acctagaatc tgggatccct
1485 60
E--> 1486 gccaggttca gtggcagtggt gtctaggaca gacttcaccc tcaccattaa tcctgtggag
1487 66
E--> 1488 gctgatgatg ttgcnaccta ttactgtcag caaagtaatg aggatcccct cacgttcggt
1489 72
E--> 1490 gctgggacca gactggaaat aaaacgg
1491 78

1552 <210> SEQ ID NO: 89

1553 <211> LENGTH: 2199

1554 <112> TYPE: DNA

1555 <113> ORGANISM: Artificial Sequence

1557 <120> FEATURE:

1558 <123> OTHER INFORMATION: Description of the artificial sequence:scFv region

1560 <400> SEQUENCE: 89

E--> 1561 atgaaatacc tattgcctac ggcagccgct ggattgttat tactcgcggc ccagccggcc
1562 6
E--> 1563 atggcggagg tgaagctggt ggagctctgg ggagccttag tgaagcctgg agggtccttg
1564 12
E--> 1565 aaactctcct gtgcagcctc tggattcact ttcagtagct ataccatgtc ttgggttcgc
1566 18
E--> 1567 cagactcccg agaagaggct ggagtgggtc gcaaccatta gtagtgngg tagttccacc
1568 24
E--> 1569 tactatccag acagtgtgaa gggccgattc accatctcca gagacaatgc caagaacacc
1570 30
E--> 1571 ctgtacctgc aaatgagcag tctgaggtct gaggacacag ccatgtatta ctgtacaaga
1572 36
E--> 1573 gaggggggtg gtttcaccgt caactggtac ttcgatgtct ggggcgcagg aacctcagtc

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02
TIME: 11:11:16

Input File : A:\237 sequence listing.asc
Output File : N:\CRF4\11212002\I661992A.raw

1574 411
E--> 1575 accgtctcct caggtggagg cggttcaggt gggcgcgcct ctggcgggtg cggatcggac
1576 411
E--> 1577 attgtgtgta cacagtctcc agcttctttg gctgtgtctc tagggcagag gccaccata
1578 411
E--> 1579 tcctgcagag ccagtgaag tgttgatagt tatggctata attttatgca ctggtatcag
1580 411
E--> 1581 cagataccag gacagccacc caaactcctc atctatcgtg catccaacct agagtctggg
1582 411
E--> 1583 atccctgccg ggttcagtgg cagtgggtct aggacagact tcacctcac cattaatcct
1584 411
E--> 1585 gtggaggctg atgatgttgc aacctattac tgcagcaaa gtaatgagga tccgctcacg
1586 411
E--> 1587 ttccgtactg ggaccagact ggaaataaaa cgggcggcgc cagcccgggc accagaaatg
1588 411
E--> 1589 cctgttcttg aaaaccgggc tgctcagggc gatattactg caccgcggcg tgctcgccgt
1590 411
E--> 1591 ttaacgggtg atcagactgc cgtctgcgt gattctctta gcgataaacc tgcaaaaaat
1592 411
E--> 1593 attattttgc tgattggcga tgggatgggg gactcggaaa ttactgccgc acgtaattat
1594 411
E--> 1595 gccgaaggtg cgggcggcct ttttaaaggt atagatgcct taccgcttac cgggcaatac
1596 411
E--> 1597 actcactatg cgctgaataa aaaaaccggc aaaccggact acgtcaccga ctcggtgca
1598 411
E--> 1599 tcagcaaccg cctggtcaac cgggtgtcaa acctataacg gcgcgctggg cgtcgatatt
1600 411
E--> 1601 cagcaaaaag atcacccaac gattctggaa atggcaaaaag ccgcaggtct ggcgaccggt
1602 411
E--> 1603 aacgttttcta ccgcagagtt gcaggatgcc acgcccgtg cgtggtggc acatgtgacc
1604 411
E--> 1605 tcgcgcaaat gctacggtcc gagcgcgacc agtgaaaaat gtccgggtaa cgctctggaa
1606 411
E--> 1607 aaaggcggaa aaggatcgat taccgaacag ctgcttaacg ctctgcccga cgttacgctt
1608 411
E--> 1609 ggcggcggcg caaaaacctt tgctgaaacg gcaaccgctg gtgaatggca gggaaaaacg
1610 411
E--> 1611 ctgcgtgaac aggcacaggc gcgtggttat cagttggtga gcgatgctgc ctactgaat
1612 411
E--> 1613 tcggtgacgg aagcgaatca gcaaaaaccc ctgcttgccc tgtttgctga cggcaatatg
1614 411
E--> 1615 ccagtgcgct ggctaggacc gaaagcaacg taccatggca atatcgataa gccgcagtc
1616 411
E--> 1617 acctgtacgc caaatccgca acgtaatgac agtgtaccaa ccctggcgca gatgaccgac
1618 411
E--> 1619 aaagccattg aattgttgag taaaaatgag aaaggctttt tcctgcaagt tgaaggtgcg
1620 411
E--> 1621 tcaatcgata aacaggatca tgctgcgaat ccttggtggc aaattggcga gacggtcgat
1622 411

mini

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 11:48:20

Input Set : A:\237 sequence listing.asc

Output Set : N:\CRF4\11212002\I661992A.raw

E--> 1623 ctogatgaag ccgtacaacg ggcgctggaa ttcgctaaaa aggagggtaa cacgctggtc
1624 1800
E--> 1625 atagtcaccg ctgatcacgc ccacgccagc cagattgttg cgccggatac caaagctccg
1626 1800
E--> 1627 ggcctcaccg aggcgctaaa taccaaagat ggcgcagtga tggatgatgag ttacgggaac
1628 1800
E--> 1629 tccgaagagg attcacaaga acataccggc agtcagttgc gtattgoggc gtatggcccg
1630 2100
E--> 1631 catgccgcca atgttggttg actgaccgac cagaccgatc tcttctacac catgaaagcc
1632 2100
E--> 1633 gctctggggg atatgcaca ccatcaccat caccattaa
1634 2100
1785 <210> SEQ ID NO: 91
1786 <211> LENGTH: 906
1787 <212> TYPE: DNA
1788 <213> ORGANISM: Artificial Sequence
1790 <220> FEATURE:
1791 <223> OTHER INFORMATION: Description of the artificial sequence: scFV region
1793 <400> SEQUENCE: 91
E--> 1794 atgaaatacc tattgcctac ggcagccgct ggattgttat tactcgcgcc ccagccggcc
1795 60
E--> 1796 atggcggagg tgaagctggt ggagtctggg ggaggcttag tgaagcctgg agggtccttg
1797 120
E--> 1798 aaactctcct gtgcagcctc tggattcact ttcagtagct ataccatgtc ttgggttgcg
1799 180
E--> 1800 cagactccgg agaagaggct ggagtgggtc gcaaccatta gtagtgngg tagttccacc
1801 240
E--> 1802 tactatccag acagtgtgaa gggccgattc accatctcca gagacaatgc caagaacacc
1803 300
E--> 1804 ctgtacctgc aaatgagcag tctgaggctc gaggacacag ccatgtatta ctgtacaaga
1805 360
E--> 1806 gaggggggtg gtttcaccgt caactggtac ttcgatgtct ggggcgcagg aacctcagtc
1807 420
E--> 1808 accgtctcct caggtggagg cggttcaggt gggcgcgcct ctggcggttg cggatcggac
1809 480
E--> 1810 attgtgctga cacagnttcc agcttctttg gctgtgtctc tagggcagag ggccaccata
1811 540
E--> 1812 tcntgcagag ccagtgaag tgttgatagt tatggctata attttatgca ctggtatcag
1813 600
E--> 1814 cagataccag gacagccacc caaactcctc atctatcgtg catccaacct agagtctggg
1815 660
E--> 1816 atccctgcca ggttcagtg cagtgggtct aggacagact tcacctcac cattaatcct
1817 720
E--> 1818 gtggaggctg atgatgttgc aacctattac tgtcagcaaa gtaatgagga tccgctcacg
1819 780
E--> 1820 ttcgggtactg ggaccagact ggaaataaaa cgggcggccg caccgaagcc ttccactccg
1821 840
E--> 1822 cccgggtctt cccgtatgaa acagctggaa gacaaagtag aggagctcct tagcaagaac
1823 900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 1:10:11

Input Set : A:\237 sequence listing.asc

Output Set: N:\CRF4\11212002\I661992A.raw

E--> 1824 taccatctag aaaacgaggt agctcgtctg aaaaagcttg ttggtgaacg tgggtgtcac
1825 240

E--> 1826 catcaccatc accattaa
1827 240

2190 <219> SEQ ID NO: 49
2191 <219> LENGTH: 555
2192 <219> TYPE: DNA
2300 <219> ORGANISM: Artificial Sequence
2301 <220> FEATURE:
2303 <223> OTHER INFORMATION: Description of the artificial sequence: scFv region.
2305 <400> SEQUENCE: 99

E--> 2306 atgaaatacc tattgcctac ggcagccgct ggattgttat tactcgcggc ccagccggcc
2307 60

E--> 2308 atggccgagg tgaagctggt ggagtctggg ggaggcttag tgaagcctgg agggtccttg
2309 120

E--> 2310 aaactctcct gtgcagcctc tggattcaact ttcagtagct ataccatgtc ttgggttcgc
2311 180

E--> 2312 cagactccgg agaagaggct ggagtgggtc gcaaccatta gtagtgngg tagttccacc
2313 240

E--> 2314 tactatccag acagtgtgaa gggccgattc accatctcca gagacaatgc caagaacacc
2315 300

E--> 2316 ctgtacctgc aaatgagcag tctgaggtct gaggacacag ccatgtatta ctgtacaaga
2317 360

E--> 2318 gaggggggtg gtttcaccgt caactggtac ttgatgtct ggggcgcagg aacctcagtc
2319 420

E--> 2320 accgtctcct caggtggagg cggttcaggt gggcggcct ctggcgggtg cggatcggac
2321 480

E--> 2322 attgtgctga cacagtctcc agcttctttg gctgtgtctc tagggcagag ggccaccata
2323 540

E--> 2324 tcctgcagag ccagtgaag tgttgatagt tatggctata attttatgca ctggtatcag
2325 600

E--> 2326 cagataccag gacagccacc caaactcctc atctatcgtg catccaacct agagtctggg
2327 660

E--> 2328 atccctgccca ggttcagtgg cagtgggtct aggacagact tcacctcac cattaatcct
2329 720

E--> 2330 gtggaggctg atgatgttgc aacctattac tgtcagcaa gtaatgagga tccgctcacg
2331 780

E--> 2332 ttcggtactg ggaccagact ggaaataaaa cgggcggccg cagaacaaaa actcatctca
2333 840

E--> 2334 gaagaggatc tgaatggggc ggcacatcac catcaccatc actaataa
2335 883

26 me

6 me

1

see following pages for more data

Sequences exist throughout
the file. Check all
minor errors.

<210> 87
<211> 747
<212> DNA
<213> Artificial
Sequence

<220>
<223> Description of the artificial sequence:scFv
region

<400> 87
gaggtgcagc ttcaggagtc aggggggaggc ttagtgaagc
ctggagggtc cctgaaactc 60
tctgtgagc cctctggatt catttttagt agttatacca
tgtcttgggt tggccagact 120
ccggagaaga ggttgagtg ggtcgcaacc attagtagtg
gtggtagtgc cactactat 180
ccagacagtg tgaaggggcg attcaccatc tccagagaca
atgccaaaga caccctgtac 240
ctgcaaataa gcagtctgaa gtctgaggac acagccatgt
atcactgtac aagagagggg 300
ggtggttatt acgtcaactg gtacttcgat gtctggggcg
caggcaccac tctcacagtc 360
tcttcaggtg gaggcggttc aggtggggcg gcctctggcg
gtggcggtac ggacattgag 420
ctcagtcagt ctccagcttc tttggctgtg tctctagggc
agagggccac catatcctgc 480
agagccagtg aaagtgttga tagttatggc aagagtttta
tgactggta ccagcagaaa 540
ccagggcagc cacccaaact cctcatctat cgtgcatcca
acctagaatc tgggatccct 600
gccaggttca gtggcagtg gtctaggaca gacttcaccc
tcaccattaa tctgtggag 660
gctgatgatg ttgcnaccta ttactgtcag caaagtaatg
aggatccct cagtttcggt 720

besides
global "wrap"
low
h's are not
explained
↓
see p 13
for more
explanation

<210> 88
 <211> 249
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of the artificial sequence:scFv
 region

<400> 88
 Glu Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Lys
 Pro Gly Gly
 1 5 10
 15
 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe
 Ser Ser Tyr 20 25
 30

*all
 amino
 acid
 sequence
 show the
 inner described
 in item 1 on
 Serer Summary
 sheet*

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 10:51:17

Input File : A:\237 sequence listing.asc

Output File: N:\CRF4\11212002\I661992A.raw

Gene Information

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:87; N Pos. 428,478

Seq#:89; N Pos. 228

Seq#:91; N Pos. 228,490,148

Seq#:92; Xaa Pos. 106

Seq#:99; N Pos. 228

Seq#:105; Xaa Pos. 2,3,14,15

*These sequences
show the above in*

Table 1. *Salmonella* serotypes and their associated diseases

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group was divided into two subgroups: the control group and the experimental group. The experimental group was divided into two subgroups: the control group and the experimental group. The control group was divided into two subgroups: the control group and the experimental group. The experimental group was divided into two subgroups: the control group and the experimental group.

Output File: N:\CRF4\11212002\I661992A.raw

file://C:\CRF4\Outhold\Vsr1661992A.htm

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 1:55:17

Input Set : A:\237 sequence listing.asc

Output Set: N:\CRF4\11212002\I661992A.raw

M:234 Repeated in SeqNo=87

L:1487 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:87

L:1487 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:87

L:1487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:441

L:1488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:441

L:1561 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:87

M:254 Repeated in SeqNo=88

L:1567 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:88

L:1567 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:88

L:1567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:181

L:1794 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:88

M:254 Repeated in SeqNo=91

L:1800 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:91

L:1800 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:91

L:1800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:181

L:1810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:461

L:1812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:540

L:1869 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:92

L:1869 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:92

L:1869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:160

L:2312 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:99

L:2312 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:99

L:2312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:180

L:2552 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:105

L:2552 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:105

L:2552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105 after pos.:0